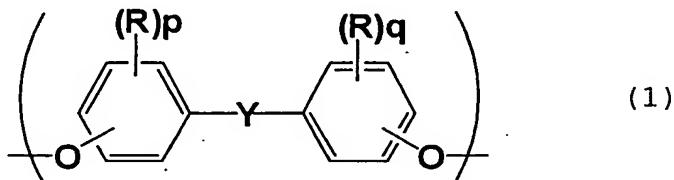


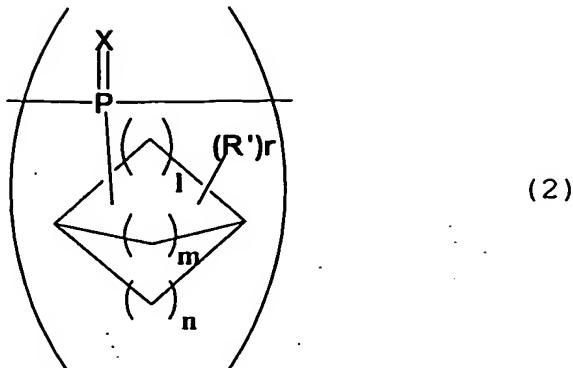
CLAIMS

1. A resin comprising both a phosphorus-containing residue having a bicycloalkyl structure, said phosphorus-containing residue representing a residue selected from residues of 5 phosphonic acid, thiophosphonic acid, selenophosphonic acid, phosphonous acid and phosphoric acid, and a divalent phenol residue represented by the following general formula (1):



wherein R_s are independently selected from the group consisting 10 of a hydrogen atom, a C₁ to C₂₀ aliphatic hydrocarbon group, a C₁ to C₂₀ aromatic hydrocarbon group, a halogen atom and a nitro group; each of p and q is an integer satisfying the equation: p + q = 0 to 8; and Y is a group selected from the group consisting of an alkylidene group, a branched chain-containing alkylidene group, a cycloalkylidene group and a branched chain-containing cycloalkylidene group.

2. The resin according to claim 1, wherein the phosphorus-containing residue having a bicycloalkyl structure is represented by the following general formula (2):

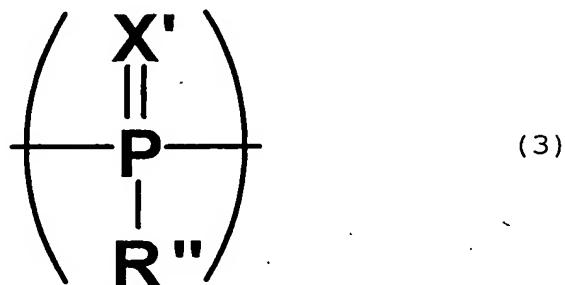


wherein l, m and n independently represent an integer of 1 to 4, X represents oxygen, sulfur, selenium or a pair of non-covalent electrons; the substituent R' is selected from 5 the group consisting of a hydrogen atom, a C1 to C20 aliphatic hydrocarbon group, a C1 to C20 aromatic hydrocarbon group and a halogen atom; and r is an integer of 0 to 4.

3. The resin according to claim 2, comprising:

the phosphorus-containing residue represented by the 10 general formula (2);

a phosphorus-containing residue represented by the following general formula (3):



wherein R''' represents an organic group other than the 15 bicycloalkyl group represented by the general formula (2), and X' represents oxygen, sulfur, selenium or a pair of non-covalent

electrons; and

the divalent phenol residue represented by the general formula (1), wherein the mol fraction of the phosphorus-containing residue represented by the general formula (2) and the phosphorus-containing residue represented by the general formula (3) satisfies the following relationship (I):

$$1 \geq (a) / \{ (a) + (b) \} \geq 0.05 \quad (I)$$

wherein (a) represents the number of moles of the phosphorus-containing residue having a bicycloalkyl structure, and (b) represents the number of moles of the phosphorus-containing residue represented by the general formula (3).

4. The resin according to claim 3, which comprises the phosphorus-containing residue represented by the general formula (2), the phosphorus-containing residue represented by the general formula (3) below, the divalent phenol residue represented by the general formula (1), and other acid residues, wherein the mol fraction of all the phosphorus-containing residues and the other acid residues satisfies the following relationship (II):

$$1 \geq (c) / \{ (c) + (d) \} \geq 0.05 \quad (II)$$

wherein (c) represents the number of moles of all the phosphorus-containing residues in total and (d) represents the number of moles of the other acid residues in total.

5. The resin according to claim 4, wherein the other acid residues contain a carbonic acid residue and/or a divalent carboxylic acid residue.

6. The resin according to claim 5, wherein the divalent carboxylic acid residue is an aliphatic dicarboxylic acid residue.

7. The resin according to claim 6, wherein the number of carbons in the aliphatic dicarboxylic acid residue is 8 or more.

8. The resin according to any one of claims 1 to 7, wherein the Abbe number (vd) that is an indicator of the light dispersibility of the resin and represented by the equation (III) is 32 or more:

$$\text{Abbe number (vd)} = (nd - 1) / (nf - nc) \text{ (III)}$$

wherein nd is a d line (wavelength 587.6 nm) refractive index, nf is a f line (wavelength 486.1 nm) refractive index, and nc is a c line (wavelength 656.3 nm) refractive index.

9. The resin according to any one of claims 1 to 8, wherein the Abbe number (vd) as an indicator of the light dispersibility of the resin and the d line (nd) refractive index of the resin are 1.58 or more, and the value represented by the following formula (IV) is 210.5 or more,

$$(vd) + 112 \times (nd) \text{ (IV)}$$

10. A molded product comprising the resin according to any one of claims 1 to 9.

25 11. An optical lens comprising the molded product according

to claim 10.

12. A film comprising the molded product according to claim 10.